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National Priority Chemicals Trends Report (2000-2004)

Appendices A through F

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Trends Report – Appendices

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Appendix A
List of States (Including Territories) Within Each EPA Region

EPA Region 1
- Connecticut (CT)
- Maine (ME)
- Massachusetts (MA)
- New Hampshire (NH)
- Rhode Island (RI)
- Vermont (VT)

EPA Region 2
- New Jersey (NJ)
- New York (NY)
- Puerto Rico (PR)
- Virgin Islands (VI)

EPA Region 3
- Delaware (DE)
- District of Columbia (DC)
- Maryland (MD)
- Pennsylvania (PA)
- Virginia (VA)
- West Virginia (WV)

EPA Region 4
- Alabama (AL)
- Florida (FL)
- Georgia (GA)
- Kentucky (KY)
- Mississippi (MS)
- North Carolina (NC)
- South Carolina (SC)
- Tennessee (TN)

EPA Region 5
- Illinois (IL)
- Indiana (IN)
- Michigan (MI)
- Minnesota (MN)
- Ohio (OH)
- Wisconsin (WI)

EPA Region 6
- Arkansas (AR)
- Louisiana (LA)
- New Mexico (NM)
- Oklahoma (OK)
- Texas (TX)

EPA Region 7
- Iowa (IA)
- Kansas (KS)
- Missouri (MO)
- Nebraska (NE)

EPA Region 8
- Colorado (CO)
- Montana (MT)
- North Dakota (ND)
- South Dakota (SD)
- Utah (UT)
- Wyoming (WY)

EPA Region 9
- Arizona (AZ)
- California (CA)
- Hawaii (HI)
- Nevada (NV)
- American Samoa (AS)
- Guam (GU)
- Northern Mariana Islands (MP)

EPA Region 10
- Alaska (AK)
- Idaho (ID)
- Oregon (OR)
- Washington (WA)

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Appendix B
SIC Codes vs. NAICS Codes

In this Report, the industry sector analyses are keyed only to the Standard Industrial Classification (SIC) codes, as currently reported on the TRI Form R. Facilities with the following SIC code designations (that meet all other applicable threshold criteria for TRI reporting) must report toxic chemical releases and other waste management quantities of toxic chemicals each year:

- SIC major group codes 10 (except 1011, 1081, and 1094)
- SIC major group codes 12 (except 1241)
- SIC major group codes 20 through 39
- SIC codes 4911, 4931, or 4939 (limited to facilities that combust coal and/or oil for the purpose of generating power for distribution in commerce); or 4953 (limited to facilities regulated under the Resource Conservation and Recovery Act, Subtitle C), or 5169, or 5171, or 7389 (limited to facilities primarily engaged in solvent recovery services on a contract or fee basis).

Although facilities in the above SIC codes are required to report to TRI, facilities in additional industry sectors also choose to report to TRI even though they are not necessarily required to do so. The database developed for use in this Report includes all facilities, regardless of SIC code (except as noted in the methodology [see Appendix C]), that reported a PC quantity to TRI for reporting years 2000-2004. The following table shows the 379 SIC codes and SIC descriptions for which one or more facilities reported a PC quantity to TRI from 2000 to 2004. A PC quantity was not necessarily reported by facilities in each of these SIC codes for each of the five years from 2000 to 2004. For example, in 2004, facilities in only 325 of these SIC codes reported a PC quantity.

For the 2006 TRI reporting year, facilities must begin reporting the North American Industry Classification System (NAICS) codes rather than the SIC codes (see 71 FR 32464, published on June 6, 2006). The NAICS codes were developed such that establishments are grouped into industries according to similarities in the processes used to produce goods or services. For a comprehensive list of NAICS codes and the corresponding SIC codes, please refer to www.census.gov/epcd/www/naics.html. This Report will use the NAICS codes when they are incorporated into the TRI dataset, which is expected to be made available to the public in the Public Data Release (PDR) in early 2008.

Exhibit B-1. SIC Codes and Descriptions
(for Facilities That Reported a Primary Chemical Quantity in 2000−2004)

Primary SIC	SIC Description	Primary SIC	SIC Description
1241	Coal mining services	3421	Cutlery
1422	Crushed and broken limestone	3423	Hand and edge tools, nec
1429	Crushed and broken stone, nec	3425	Saw blades and handsaws
1442	Construction sand and gravel	3429	Hardware, nec
2011	Meat packing plants	3431	Metal sanitary ware
2013	Sausages and other prepared meats	3432	Plumbing fixture fittings and trim
2015	Poultry slaughtering and processing	3433	Heating equipment, except electric
2021	Creamery butter	3441	Fabricated structural metal
2022	Cheese, natural and processed	3442	Metal doors, sash, and trim
2023	Dry, condensed, evaporated products	3443	Fabricated plate work (boiler shops)
2026	Fluid milk	3444	Sheet metal work
2032	Canned specialties	3446	Architectural metal work
2033	Canned fruits and vegetables	3448	Prefabricated metal buildings
2034	Dehydrated fruits, vegetables, soups	3449	Miscellaneous metal work
2037	Frozen fruits and vegetables	3451	Screw machine products
2038	Frozen specialties, nec	3452	Bolts, nuts, rivets, and washers
2046	Wet corn milling	3462	Iron and steel forgings
2047	Dog and cat food	3463	Nonferrous forgings
2048	Prepared feeds, nec	3465	Automotive stampings
2061	Raw cane sugar	3466	Crowns and closures
2062	Cane sugar refining	3469	Metal stampings, nec
2063	Beet sugar	3471	Plating and polishing
2064	Candy and other confectionery products	3479	Metal coating and allied services
2066	Chocolate and cocoa products	3482	Small arms ammunition
2075	Soybean oil mills	3483	Ammunition, except for small arms, nec
2076	Vegetable oil mills, nec	3484	Small arms
2079	Edible fats and oils, nec	3489	Ordnance and accessories, nec
2082	Malt beverages	3491	Industrial valves
2085	Distilled and blended liquors	3492	Fluid power valves and hose fittings
2086	Bottled and canned soft drinks	3494	Valves and pipe fittings, nec
2087	Flavoring extracts and syrups, nec	3495	Wire springs
2091	Canned and cured fish and seafood	3496	Miscellaneous fabricated wire products
2099	Food preparations, nec	3497	Metal foil and leaf
2111	Cigarettes	3498	Fabricated pipe and fittings
2141	Tobacco stemming and redrying	3499	Fabricated metal products, nec
2211	Broadwoven fabric mills, cotton	3511	Turbines and turbine generator sets
2221	Broadwoven fabric mills, man-made	3519	Internal combustion engines, nec
2231	Broadwoven fabric mills, wool	3523	Farm machinery and equipment
2241	Narrow fabric mills	3524	Lawn and garden equipment
2253	Knit outerwear mills	3531	Construction machinery
2259	Knitting mills, nec	3533	Oil and gas field machinery
2261	Finishing plants, cotton	3535	Conveyors and conveying equipment
2262	Finishing plants, man-made	3536	Hoists, cranes, and monorails
2269	Finishing plants, nec	3537	Industrial trucks and tractors

Exhibit B-1. SIC Codes and Descriptions
(for Facilities That Reported a Primary Chemical Quantity in 2000−2004)

Primary SIC	SIC Description	Primary SIC	SIC Description
2273	Carpets and rugs	3541	Machine tools, metal cutting types
2295	Coated fabrics, not rubberized	3542	Machine tools, metal forming types
2296	Tire cord and fabrics	3544	Special dies, tools, jigs, and fixture
2299	Textile goods, nec	3545	Machine tool accessories
2322	Men's and boys' underwear and nightwear	3546	Power driven hand tools
2381	Fabric dress and work gloves	3547	Rolling mill machinery
2399	Fabricated textile products, nec	3548	Welding apparatus
2411	Logging	3549	Metalworking machinery, nec
2421	Sawmills and planing mills, general	3554	Paper industries machinery
2426	Hardwood dimension and flooring mills	3556	Food products machinery
2429	Special product sawmills, nec	3559	Special industry machinery, nec
2431	Millwork	3561	Pumps and pumping equipment
2434	Wood kitchen cabinets	3562	Ball and roller bearings
2435	Hardwood veneer and plywood	3563	Air and gas compressors
2436	Softwood veneer and plywood	3564	Blowers and fans
2439	Structural wood members, nec	3565	Packaging machinery
2448	Wood pallets and skids	3566	Speed changers, drives, and gears
2449	Wood containers, nec	3568	Power transmission equipment, nec
2451	Mobile homes	3569	General industrial machinery, nec
2491	Wood preserving	3571	Electronic computers
2493	Reconstituted wood products	3572	Computer storage devices
2499	Wood products, nec	3577	Computer peripheral equipment, nec
2511	Wood household furniture	3579	Office machines, nec
2512	Upholstered household furniture	3582	Commercial laundry equipment
2514	Metal household furniture	3585	Refrigeration and heating equipment
2519	Household furniture, nec	3586	Measuring and dispensing pumps
2522	Office furniture, except wood	3589	Service industry machinery, nec
2531	Public building and related furniture	3592	Carburetors, pistons, rings, valves
2541	Wood partitions and fixtures	3593	Fluid power cylinders and actuators
2542	Partitions and fixtures, except wood	3594	Fluid power pumps and motors
2591	Drapery hardware and blinds and shades	3596	Scales and balances, except laboratory
2599	Furniture and fixtures, nec	3599	Industrial machinery, nec
2611	Pulp mills	3612	Transformers, except electronic
2621	Paper mills	3613	Switchgear and switchboard apparatus
2631	Paperboard mills	3621	Motors and generators
2652	Set-up paperboard boxes	3624	Carbon and graphite products
2653	Corrugated and solid fiber boxes	3625	Relays and industrial controls
2657	Folding paperboard boxes	3629	Electrical industrial apparatus, nec
2671	Paper coated and laminated, packaging	3631	Household cooking equipment
2672	Paper coated and laminated, nec	3632	Household refrigerators and freezers
2673	Bags - plastics, laminated and coated	3633	Household laundry equipment
2676	Sanitary paper products	3634	Electric housewares and fans
2679	Converted paper products, nec	3639	Household appliances, nec
2752	Commercial printing, lithographic	3641	Electric lamps

Exhibit B-1. SIC Codes and Descriptions
(for Facilities That Reported a Primary Chemical Quantity in 2000−2004)

Primary SIC	SIC Description	Primary SIC	SIC Description
2754	Commercial printing, gravure	3643	Current-carrying wiring devices
2759	Commercial printing, nec	3644	Noncurrent-carrying wiring devices
2796	Plate making services	3645	Residential lighting fixtures
2812	Alkalies and chlorine	3646	Commercial lighting fixtures
2813	Industrial gases	3647	Vehicular lighting equipment
2816	Inorganic pigments	3648	Lighting equipment, nec
2819	Industrial inorganic chemicals, nec	3651	Household audio and video equipment
2821	Plastics materials and resins	3661	Telephone and telegraph apparatus
2822	Synthetic rubber	3663	Radio and TV communication equipment
2823	Cellulosic man-made fibers	3669	Communications equipment, nec
2824	Organic fibers, noncellulosic	3671	Electron tubes
2833	Medicinals and botanicals	3672	Printed circuit boards
2834	Pharmaceutical preparations	3674	Semiconductors and related devices
2835	Diagnostic substances	3675	Electronic capacitors
2836	Biological products, except diagnostic	3676	Electronic resistors
2841	Soap and other detergents	3677	Electronic coils and transformers
2842	Polishes and sanitation goods	3678	Electronic connectors
2843	Surface active agents	3679	Electronic components, nec
2844	Toilet preparations	3691	Storage batteries
2851	Paints and allied products	3692	Primary batteries, dry and wet
2861	Gum and wood chemicals	3694	Engine electrical equipment
2865	Cyclic crudes and intermediates	3699	Electrical equipment and supplies, nec
2869	Industrial organic chemicals, nec	3711	Motor vehicles and car bodies
2873	Nitrogenous fertilizers	3713	Truck and bus bodies
2874	Phosphatic fertilizers	3714	Motor vehicle parts and accessories
2875	Fertilizers, mixing only	3715	Truck trailers
2879	Pesticides and agricultural chemicals, nec	3716	Motor homes
2891	Adhesives and sealants	3721	Aircraft
2892	Explosives	3724	Aircraft engines and engine parts
2893	Printing ink	3728	Aircraft parts and equipment, nec
2895	Carbon black	3731	Ship building and repairing
2899	Chemical preparations, nec	3732	Boat building and repairing
2911	Petroleum refining	3743	Railroad equipment
2951	Asphalt paving mixtures and blocks	3751	Motorcycles, bicycles, and parts
2952	Asphalt felts and coatings	3761	Guided missiles and space vehicles
2992	Lubricating oils and greases	3764	Space propulsion units and parts
2999	Petroleum and coal products, nec	3769	Space vehicle equipment, nec
3011	Tires and inner tubes	3792	Travel trailers and campers
3021	Rubber and plastics footwear	3795	Tanks and tank components
3052	Rubber and plastics hose and belting	3799	Transportation equipment, nec
3053	Gaskets, packing and sealing devices	3812	Search and navigation equipment
3061	Mechanical rubber goods	3821	Laboratory apparatus and furniture
3069	Fabricated rubber products, nec	3822	Environmental controls
3081	Unsupported plastics, film and sheet	3823	Process control instruments

Exhibit B-1. SIC Codes and Descriptions
(for Facilities That Reported a Primary Chemical Quantity in 2000−2004)

Primary SIC	SIC Description	Primary SIC	SIC Description
3082	Unsupported plastics, profile shapes	3824	Fluid meters and counting devices
3083	Laminated plastics, plate and sheet	3825	Instruments to measure electricity
3084	Plastics, pipe	3826	Analytical instruments
3086	Plastics, foam products	3827	Optical instruments and lenses
3087	Custom compound purchased resins	3829	Measuring and controlling devices, nec
3088	Plastics, plumbing fixtures	3841	Surgical and medical instruments
3089	Plastics products, nec	3842	Surgical appliances and supplies
3111	Leather tanning and finishing	3843	Dental equipment and supplies
3211	Flat glass	3844	X-ray apparatus and tubes
3221	Glass containers	3845	Electromedical equipment
3229	Pressed and blown glass, nec	3851	Ophthalmic goods
3231	Products of purchased glass	3861	Photographic equipment and supplies
3251	Brick and structural clay tile	3911	Jewelry, precious metal
3253	Ceramic wall and floor tile	3914	Silverware and plated ware
3255	Clay refractories	3915	Jewelers' materials and lapidary work
3261	Vitreous plumbing fixtures	3931	Musical instruments
3262	Vitreous china table and kitchenware	3949	Sporting and athletic goods, nec
3263	Semivitreous table and kitchenware	3951	Pens and mechanical pencils
3264	Porcelain electrical supplies	3952	Lead pencils and art goods
3269	Pottery products, nec	3961	Costume jewelry
3271	Concrete block and brick	3965	Fasteners, buttons, needles, and pins
3272	Concrete products, nec	3993	Signs and advertising specialties
3273	Ready-mixed concrete	3995	Burial caskets
3274	Lime	3996	Hard surface floor coverings, nec
3275	Gypsum products	3999	Manufacturing industries, nec
3281	Cut stone and stone products	4213	Trucking, except local
3291	Abrasive products	4226	Special warehousing and storage, nec
3295	Minerals, ground or treated	4491	Marine cargo handling
3296	Mineral wool	4512	Air transportation, scheduled
3297	Nonclay refractories	4581	Airports, flying fields, and services
3299	Nonmetallic mineral products, nec	4925	Gas production and/or distribution
3312	Blast furnaces and steel mills	4961	Steam and air conditioning supply
3313	Electrometallurgical products	5013	Motor vehicle supplies and new parts
3315	Steel wire and related products	5032	Brick, stone, and related materials
3316	Cold finishing of steel shapes	5033	Roofing, siding, and insulation
3317	Steel pipe and tubes	5093	Scrap and waste materials
3321	Gray and ductile iron foundries	5162	Plastics materials and basic shapes
3322	Malleable iron foundries	5169	Chemicals and allied products, nec
3324	Steel investment foundries	5171	Petroleum bulk stations and terminals
3325	Steel foundries, nec	7211	Power laundries, family and commercial
3334	Primary aluminum	7999	Amusement and recreation, nec
3341	Secondary nonferrous metals	8221	Colleges and universities
3351	Copper rolling and drawing	8731	Commercial physical research
3353	Aluminum sheet, plate, and foil	8733	Noncommercial research organizations

Exhibit B-1. SIC Codes and Descriptions
(for Facilities That Reported a Primary Chemical Quantity in 2000−2004)

Primary SIC	SIC Description	Primary SIC	SIC Description
3354	Aluminum extruded products	8734	Testing laboratories
3355	Aluminum rolling and drawing, nec	8744	Facilities support services
3356	Nonferrous rolling and drawing, nec	8999	Services, nec
3357	Nonferrous wire drawing and insulating	9199	General government, nec
3363	Aluminum die-castings	9221	Police protection
3364	Nonferrous die-castings, except aluminum	9229	Public order and safety, nec
3365	Aluminum foundries	9411	Administration of educational programs
3366	Copper foundries	9512	Land, mineral, wildlife conservation
3369	Nonferrous foundries, nec	9621	Regulation, admin. of transportation
3398	Metal heat treating	9661	Space research and technology
3399	Primary metal products, nec	9711	National security
3411	Metal cans	9721	International affairs
3412	Metal barrels, drums, and pails	9999	Nonclassifiable establishment

Appendix C
Methodology for Calculating Quantities of Priority Chemicals and Measuring Trends

The Priority Chemical Measurement Methodology

To identify and collect data on Priority Chemicals (PCs) reported to the TRI from 2000 through 2004, EPA undertook the following steps:

1. Extract data regarding PCs reported to TRI.
2. Exclude selected TRI data.
3. Identify relevant releases and waste management quantities to calculate PC quantities.
4. Analyze data and measure progress made toward the 2008 GPRA goal

These steps are described below.

Step 1: Extract Data Regarding Priority Chemicals (PCs) Reported to TRI

Twenty-four of the 31 PCs identified by OSW are reported to TRI. Using the Chemical Abstract System (CAS) numbers of these 24 PCs (Exhibit C-1), data on these chemicals were extracted from the TRI for reporting years 2000 through 2004. It should be noted that if a facility reported multiple SIC codes, the designated primary SIC code was used. In developing this report, the TRI data (for 2000 through 2004), frozen as of January 17, 2006, were used. This is the same data set used for the *2003 TRI Public Data Release* (April 12, 2006). However, we subsequently made some revisions to the data based on quality assurance activities. The extracted data were used to create a PC database. Exhibit C-1 lists the PCs included in this methodology.

Exhibit C-1. List of Priority Chemicals

Priority Chemicals (PCs) Reported to TRI (Used in Methodology)	
1,2,4 - Trichlorobenzene	Lindane
2,4,5 - Trichlorophenol	Mercury and mercury compounds
Anthracene	Methoxychlor
Benzo(g,h,i)perylene	Naphthalene
Cadmium and cadmium compounds	Pendimethalin
Dibenzofuran	Pentachlorobenzene
Dioxins and dioxin-like compounds	Pentachlorophenol
Heptachlor	Phenanthrene
Hexachloro-1,3-butadiene	Polychlorinated biphenyls (PCBs)
Hexachlorobenzene	Polycyclic aromatic compounds (PACs)
Hexachloroethane	Quintozene
Lead and lead compounds	Trifluralin
Priority Chemicals (PCs) Not Reported to TRI (Not Used in Methodology)	
1,2,4,5-Tetrachlorobenzene	Endosulfan, alpha, beta-
4-Bromophenyl phenyl ether	Fluorene
Acenaphthene	Heptachlor epoxide
Acenaphthylene	Pyrene

For the purposes of developing this list of 31PCs, endosulfan alpha and endosulfan beta were counted together and heptachlor and heptachlor epoxide were counted together. Also, each of the three metals (lead, cadmium, and mercury) is combined with its associated metal compounds and addressed as a single PC in this Report. For example, Lead and lead compounds are addressed as a single PC. Only the weight of the metal portion of metal compounds is reported to TRI.

Step 2: Exclude Selected TRI Data

The following TRI data were excluded from the analysis:

Data Associated With Bevill Exempt Materials. The PC measurement methodology is intended to identify facilities with PCs and to calculate the quantity of these PCs that are amenable to waste minimization. Under legislation, referred to as the Bevill Amendment, certain wastes from mining and beneficiation activities are excluded from regulation as RCRA hazardous wastes. EPA also assumes that these wastes offer little, if any, waste minimization opportunities at this time. Facilities that reported the following SIC codes as their primary SIC code were excluded from the analysis (see Exhibit C-2); we believe that PCs reported by these facilities were associated with Bevill exempt materials:

Exhibit C-2. Primary SIC Codes Excluded Due to Associated Bevill Exempt Materials

Primary SIC	Description
1021	Copper ores
1031	Lead and zinc ores
1041	Gold ores
1044	Silver ores
1061	Ferroalloy ores, except vanadium
1099	Metal ores, nec
1221	Bituminous and lignite coal mining, surface, and bituminous coal preparation plants
1222	Bituminous coal – underground
3331	Primary copper
3339	Primary nonferrous metals, nec
4911	Electric services
4931	Electric and other services combined
4939	Combination utilities, nec

In addition, all data reported by the following facilities (primary SIC code 2816 or 2819) were excluded, as they are associated with the Bevill exempt titanium dioxide (TiO_2) process:

- DuPont Edge Moor, DE (DED000800284)
- Kerr-McGee Pigments, GA (GAD003282803)
- Louisiana Pigment, LP, LA (LAD985185149)
- Millennium Inorganic Chemicals, Hawkins Point Plant, MD (MDD003093515)
- Kerr-McGee Chemical LLC Electrolytic Plant, MS (MSD007025117)
- DuPont Delisle Plant, MS (MSD096046792)
- DuPont Johnsonville Plant, TN (TND004044491)
- U.S. Borax, Inc., CA (CAD000630020)
- IMC Chemicals, Inc., CA (CAD048456941)
- Kaiser Aluminum and Chemical Corp Gramercy, LA (LAD008182289)
- Sherwin Alumina LP, TX (TXD008129983)
- Alcoa World Alumina LLC Point Comfort Operations, TX (TXD008123168)
- Ormet Primary Aluminum Corp, LA (LAD093536522)

Finally, all data reported by the following facilities (primary SIC code 3312) were excluded, as they are associated with blast furnace and basic oxygen furnace wastes, including dust/sludge and slag:

- Granite City Steel, IL (ILD008873937)
- ACME Steel Co. Riverdale Plant, IL (ILD020952362)
- Bethlehem Steel Corp. Burns Harbor Div., IN (IND003913423)
- Ispat Inland Inc., IN (IND005159199)
- USS Gary Works, IN (IND005444062)
- LTV Steel, Co., IN (IND005462601)
- AK Steel Corp., KY (KYD005013032)
- Bethlehem Steel, MD (MDD053945432)
- National Steel Corp. Great Lakes Ops., MI (MID004320479)
- Wheeling-Pittsburgh Steel Corp. Steubenville North, OH (OHD000810382)
- LTV Steel Co., Inc. Cleveland Works, OH (OHD004218673)
- AK Steel Corp. OH (OHD004234480)
- WCI Steel, Inc., OH (OHD060409521)
- Wheeling-Pittsburgh Steel Corp., Mingo Junction, OH (OHD980618177)
- Republic Tech. Intl. Lorain Plant, OH (OHR000037713)
- Allegheny Ludlum Corp., PA (PAD004335154)
- USS Mon Valley Works Edgar Thomson Plant, PA (PAD060682606)
- Geneva Steel, L.L.C., UT (UTD009086133)
- Weirton Steel Corp., WV (WVD000068908)
- Wheeling-Pittsburgh Steel Corp. Steubenville East, WV (WVD004319539)

Data Reported by Offsite Treatment, Storage, and Disposal (TSD) Facilities. Facilities that reported the following SIC codes as their primary SIC code were excluded from the analysis in order to avoid double-counting of wastes reported by both generating and offsite waste management facilities:

Exhibit C-3. Primary SIC Codes Excluded to Avoid Double-Counting

Primary SIC	Description
3241	Cement, hydraulic
4953	Refuse systems
7389	Business services, nec

In addition, all data reported by the Rineco facility in Arkansas (ARD981057870) were assigned to SIC code 4953 for the five years (2000 through 2004) analyzed, instead of SIC code 9511, as may have been reported in TRI. As such, it was excluded from the analysis.

Data Reported for Facilities Using SIC Code 9511. Facilities that reported the SIC code 9511 as their primary SIC code were excluded from the analysis because such facilities do not offer waste minimization opportunities. The focus of this measurement methodology is to identify PC quantities associated with primary generation activities. As such, facilities in SIC 9511 and facilities undertaking RCRA corrective action or Superfund actions were excluded because these facilities do not offer limited, if any, waste minimization opportunities at the primary generation level.

The description of SIC 9511 (Air and Water Resource and Solid Waste Management) is: government establishments primarily engaged in regulation, planning, protection and conservation of air and water resources; solid waste management; water and air pollution control and prevention; flood control; drainage development, and consumption of water resources; coordination of these activities at intergovernmental levels; research necessary for air pollution abatement and control and conservation of water resources.

Data for these facilities were included in a separate table in the database. In addition, the quantities reported by the U.S. DOE Hanford site (TRI ID 99352-SPDRT-POBOX), U.S. EPA fund-led Superfund site/Bunker Hill CTP (TRI ID 83837-SPFND-1005M), and U.S. Navy AFWTF Live Impact Area (TRI ID 00765-SNVYF-CERRO) sites were also excluded from the analysis and included in the same table as the SIC 9511 facilities.

Step 3: Identify Relevant Releases and Waste Management Quantities to Calculate Priority Chemical Quantities

TRI collects information on quantities of chemicals in wastes that are reported under the categories of releases or waste management. However, not all of these quantities are associated with hazardous waste. Therefore, it is necessary to determine which quantities are most likely relevant to the measurement of PC quantities in wastes (see Exhibit C-4). Since the purpose of this methodology is to identify those quantities of the PCs that are amenable to waste minimization, it is necessary to identify the relevant sections of TRI Form R – those quantities of PCs that are land disposed, treated, or sent to energy recovery. The methodology also allows distinctions to be made between PCs contained in RCRA Subtitle C hazardous wastes versus non-Subtitle C (non-hazardous) wastes. The non-Subtitle C wastes are not hazardous wastes and for the purposes of this methodology and the resulting database, are termed Subtitle D industrial wastes (excluding the Bevill exempt materials described previously). In order to make the distinction between Subtitle C and Subtitle D wastes containing PCs, the methodology identifies which sections of the TRI generally apply to Subtitle C wastes and which sections generally apply to Subtitle D wastes. Please note that, for the purposes of this Report, no distinction is shown between Subtitle C and Subtitle D wastes containing the PCs. Quantities presented in this Report are the total of these two categories. However, the facility specific data in the database do contain a breakout of quantities according to onsite and offsite disposal, treatment, and energy recovery for both the Subtitle C and Subtitle D categories.

In calculating PC quantities associated with onsite management methods, it is generally assumed that:

- If the generating facility has a valid RCRA identification number (ID), the wastes are regulated under Subtitle C.
- If the generating facility does not have a valid RCRA ID number, the wastes are regulated under Subtitle D.

In calculating PC quantities associated with offsite management methods, it is generally assumed that:

- If the generating facility and the offsite facility have valid RCRA ID numbers, the wastes are regulated under Subtitle C.
- If the generating facility has a valid RCRA ID number, but the offsite facility does not have a valid RCRA ID number, the wastes are regulated under Subtitle D.
- If the generating facility does not have a valid RCRA ID number, the wastes are regulated under Subtitle D.

Based on the above information, generating facilities with valid RCRA ID numbers may have reported wastes regulated under Subtitle C and Subtitle D, while generating facilities without valid RCRA ID numbers will have reported wastes regulated under Subtitle D.

The equations used to calculate the PC quantities associated with Subtitle C activities are presented in Exhibit C-5. The equations used to calculate the PC quantities associated with Subtitle D activities are presented in Exhibit C-6.

As shown in Exhibits C-5 and C-6, the PC quantities are calculated using data reported in Sections 5 and 6 of TRI Form R. Please note that a number of changes were made to the TRI Form R in 2002 and 2003 concerning offsite management codes (see Exhibit C-7).

Note, however, that data reported in these sections include all releases and transfers, regardless of whether they arise from catastrophic, remedial, one-time, or routine process operations. Because the purpose of this methodology is to identify those quantities that are amenable to waste minimization, it is necessary to minimize the effect that releases arising from catastrophic, remedial, or one-time events (i.e., quantities reported in Section 8.8 of TRI Form R) may have on the PC quantities. The criteria used to account for these releases are presented in Exhibit C-8.

Exhibit C-9 shows the TRI data files and data elements used to develop the databases that implement the measurement methodology. Exhibit C-10 shows the adjustments that OSW staff made to the TRI data extracted for the PCs database based on follow-up quality assurance activities. Although we ideally strive to determine the quantities of Priority Chemicals that are contained in wastes amenable to waste minimization, often an increase or decrease at a facility is not necessarily related to production but rather is influenced by other factors such as process or plant shutdowns, periodic cleanout of tanks, piping systems, etc. that are part of routine maintenance, improved measurement and detection equipment, and compliance with new regulations. We often cannot readily discern that an increase or decrease of quantities of Priority Chemicals was associated with such an event and may only learn about it as a result of conducting quality assurance of the data by, for example, contacting the facility to verify a significant change from one year to another.

Step 4: Analyze Data to Measure Progress Made Towards the 2008 GPRA Goal and Perform Trends Analyses

Data derived from the revised methodology, for TRI reporting years 2000-2004, applicable to the 24 PCs, are used to:

- Measure progress toward the 2008 GPRA goal of a 10 percent reduction of the total aggregated quantity of the 23 PCs[20], using 2001 as the baseline year and
- Evaluate trends for the 24 PCs, using aggregated and non-aggregated quantities, at the national, EPA Region, state, industry sector, and federal agency (for federal facilities) levels, for the most recent five years of available TRI data (2000-2004). While there may be several different ways to calculate changes between years, EPA uses an absolute-quantity-change approach for this report. The absolute-quantity-change approach is used to evaluate the difference in the total PC quantity (land disposal quantity + treatment quantity + energy recovery quantity) reported for the 24 PCs, either individually or aggregated, between any two years.

[20] Although 24 of the 31 PCs are reported to TRI, only 23 of the PCs are tracked for the 2008 GPRA goal. Polychlorinated biphenyls (PCBs) were not on the list of PCs at the time the 2008 GPRA goal was developed.

Exhibit C-4. Description of TRI Form R Sections

Section of Form R	Data Element Description	Associated with Subtitle C	Associated with Industrial Subtitle D
5.1	Fugitive air	No--Not relevant to waste minimization	No--Not relevant to waste minimization
5.2	Point-source air	No--Not relevant to waste minimization	No--Not relevant to waste minimization
5.3	Surface-water discharge	No--Not relevant to waste minimization	No--Not relevant to waste minimization
5.4.1	Underground injection on-site to Class I wells	Yes, if generating facility has a valid RCRA ID number	Yes, if generating facility does not have a valid RCRA ID number
5.4.2	Underground injection on-site to Class II-V wells	No	Yes
5.5.1A	Disposal in RCRA Subtitle C landfills	Yes	No
5.5.1B	Other landfills	No	Yes
5.5.2	Onsite land treatment	No	Yes
5.5.3	Onsite surface impoundment	Yes, if generating facility has a valid RCRA ID number	Yes, if generating facility does **not** have a valid RCRA ID number
5.5.3A	Subtitle C surface impoundment	Yes	No
5.5.3B	Other surface impoundment	No	Yes
5.5.4	Other on-site disposal	No	Yes
6.1	Discharges to Publicly Owned Treatment Works (POTWs)	Yes, if generating facility has a valid RCRA ID number	Yes, if generating facility does **not** have a valid RCRA ID number
6.2	Transfers to Other OffSite Locations	Yes, as specified in the equations presented in Exhibit 3	Yes, as specified in the equations presented in Exhibit 4
8.1	Total releases	Yes, if generating facility has a valid RCRA ID number	Yes, if generating facility does **not** have a valid RCRA ID number
8.2	Onsite energy recovery	Yes, if generating facility has a valid RCRA ID number	Yes, if generating facility does **not** have a valid RCRA ID number
8.3	Offsite energy recovery	Yes, as specified in the equations presented in Exhibit 3	Yes, as specified in the equations presented in Exhibit 4
8.4	Onsite recycle	Valid waste minimization method	Valid waste minimization method
8.5	Offsite recycle	Valid waste minimization method	Valid waste minimization method
8.6	Onsite treatment	Yes, if generating facility has a valid RCRA ID number	Yes, if generating facility does **not** have a valid RCRA ID number
8.7	Offsite treatment	Yes, as specified in the equations presented in Exhibit 3	Yes, as specified in the equations presented in Exhibit 4
8.8	Remedial actions, catastrophic events, or one-time events	Not amenable to minimization	Not amenable to minimization

Exhibit C-5 Equations Used to Calculate Priority Chemical Quantities Associated with RCRA Subtitle C Activities

Equation	Comments
OnSite Disposal	
[5.4.1] + [5.5.1A] + [5.5.3] + [5.5.3A]	▪ The quantities reported in Sections 5.5.1A and 5.5.3A are by definition Subtitle C quantities; thus, it is not necessary to determine whether the generating facility has a valid RCRA ID number. ▪ Only Section 5.4.1 and 5.5.3 quantities reported by generating facilities with a valid RCRA ID number are included in the calculation. ▪ Section 5.5.3A was added to Form R for reporting year 2003.
OffSite Disposal	
[6.1(metals and metal compounds)] + [*Subtitle C Disposal OffSite Transfers*]	▪ Only Section 6.1 quantities reported by generating facilities with a valid RCRA ID number are included in the calculation. ▪ *Subtitle C Disposal Off-Site Transfers* consist of the following two components: – Quantities associated with disposal codes M41, M62, M63, M71, M72, M81, M90, M94, and M99 sent to offsite facilities with a valid RCRA ID number. – Quantities associated with disposal codes M65 and M66. The quantities associated with these disposal codes are by definition Subtitle C quantities; thus, it is not necessary to determine whether the off-site facility has a valid RCRA ID number. The above quantities are reported in Section 6.2 of TRI Form R. ▪ Facilities began to report M63 and M65 quantities in reporting year 2002. ▪ Facilities began to report M66 and M81 quantities in reporting year 2003.
OnSite Energy Recovery	
[8.2]	▪ Only Section 8.2 quantities reported by generating facilities with a valid RCRA ID number are included in the calculation.
OffSite Energy Recovery	
[8.3] – [*Subtitle D Energy Recovery OffSite Transfers*]	▪ Equation applies to generating facilities with a valid RCRA ID number only *Subtitle D Energy Recovery OffSite Transfers* consist of quantities associated with energy recovery codes M56 and M92 sent to off-site facilities without a valid RCRA ID number. These quantities are reported in Section 6.2 of TRI Form R.
OnSite Treatment	
[8.6]	▪ Only Section 8.6 quantities reported by generating facilities with a valid RCRA ID number are included in the calculation.
OffSite Treatment	
[8.7] – [*Subtitle D Treatment OffSite Transfers*]	▪ Equation applies to generating facilities with a valid RCRA ID number only ▪ *Subtitle D Treatment OffSite Transfers* consist of quantities associated with treatment codes M40, M50, M54, M61, M69, and M95 sent to off-site facilities without a valid RCRA ID number. These quantities are reported in Section 6.2 of TRI Form R

Exhibit C-6. Equations Used to Calculate Priority Chemical Quantities Associated with RCRA Subtitle D Activities

Equation	Comments
OnSite Disposal	
[5.4.1] + [5.4.2] + [5.5.1B] + [5.5.2] + [5.5.3] + [5.5.3B] + [5.5.4]	▪ The quantities reported in Sections 5.4.2, 5.5.1B, and 5.5.3B are by definition Subtitle D quantities; thus, it is not necessary to determine whether the generating facility has a valid RCRA ID number. ▪ The quantities reported in Sections 5.5.2 and 5.5.4 are assumed to be Subtitle D quantities. ▪ Only Section 5.4.1 and 5.5.3 quantities reported by generating facilities without a valid RCRA ID number are included in the calculation. ▪ Section 5.5.3B was added to Form R for reporting year 2003.
OffSite Disposal	
[6.1(metals and metal compounds)] + [*Subtitle D Disposal OffSite Transfers*]	▪ Only Section 6.1 quantities reported by generating facilities without a valid RCRA ID number are included in the calculation. ▪ *Subtitle D Disposal OffSite Transfers* consist of the following two components: – Quantities associated with disposal codes M64, M67, and M82. The quantities associated with these disposal codes are by definition Subtitle D quantities; thus, it is not necessary to determine whether the off-site facility has a valid RCRA ID number. – Quantities associated with disposal codes M73 and M79 are assumed to be Subtitle D quantities. – Quantities associated with disposal codes M41, M62, M63, M71, M72, M81, M90, M94, and M99 sent to off-site facilities without a valid RCRA ID number. The above quantities are reported in Section 6.2 of TRI Form R. ▪ Facilities began to report quantities to disposal codes M63 and M64 in reporting year 2002. ▪ Facilities began to report quantities to disposal codes M67, M81, and M82 in reporting year 2003.
OnSite Energy Recovery	
[8.2]	▪ Only Section 8.2 quantities reported by generating facilities without a valid RCRA ID number are included in the calculation.
OffSite Energy Recovery	
[8.3] + [*Subtitle D Energy Recovery OffSite Transfers*]	▪ Only Section 8.3 quantities reported by generating facilities without a valid RCRA ID number are included in the calculation. ▪ *Subtitle D Energy Recovery OffSite Transfers* consist of quantities associated with energy recovery codes M56 and M92 sent to off-site facilities without a valid RCRA ID number. These quantities are reported in Section 6.2 of TRI Form R.
OnSite Treatment	
[8.6]	▪ Only Section 8.6 quantities reported by generating facilities without a valid RCRA ID number are included in the calculation.
OffSite Treatment	
[8.7] + [*Subtitle D Treatment OffSite Transfers*]	▪ Only Section 8.7 quantities reported by generating facilities without a valid RCRA ID number are included in the calculation. ▪ *Subtitle D Treatment OffSite Transfers* consist of quantities associated with treatment codes M40, M50, M54, M61, M69, and M95 sent to offsite facilities without a valid RCRA ID number. These quantities are reported in Section 6.2 of TRI Form R.

Exhibit C-7. Changes to Offsite Management Method Codes on TRI Form R

A Note About Management Method Code Changes in the TRI for Reporting Years 2002 and 2003

For reporting year 2002, disposal code M72 (Landfills/Disposal Surface Impoundment) was retired and replaced with M63 (Surface Impoundment), M64 (Other Landfills), and M65 (RCRA Subtitle C Landfills).

For reporting year 2003, disposal code M63 (Surface Impoundment) was retired and replaced with M66 (RCRA Subtitle C Surface Impoundment) and M67 (Other Surface Impoundment). In addition, M71 was retired and replaced with M81 (Underground Injection Class I Wells) and M82 (Underground Injection Class II-V Wells).

A review of the TRI data for reporting years 2002 and 2003 showed that some facilities reported quantities for M72 in 2002 and 2003, despite the fact that it was retired. Likewise, some facilities reported quantities for M63 and M71 in 2003, despite the fact that they were retired. Note, however, that facilities either reported to a retired management method code or to the new management method codes (e.g., M72 or M63/M64/M65).

Exhibit C-8. Criteria Used to Account for TRI Form R Section 8.8 Quantities When Calculating Priority Chemical Quantities Associated with RCRA Subtitle C and D Activities

Criteria		Revision to PC Quantities
For [8.8] = 0		None
For [8.8] > 0	[8.8] = [Subtitle C and D Total]	All PC quantities calculated using the equations in Exhibits 6 and 7 were updated to zero
	[8.8] > [Subtitle C and D Total]	None
	[8.8] < [Subtitle C and D Total] AND [8.8] = [5.1] + [5.2]	None
	[8.8] < [Subtitle C and D Total] AND [8.8] = [5.3]	None
	[8.8] < [Subtitle C and D Total] AND [8.8] = [5.1] + [5.2] + [5.3]	None
	[8.8] < [Subtitle C and D Total] AND [8.8] = [8.4]	None
	[8.8] < [Subtitle C and D Total] AND [8.8] = [8.5]	None

[a] Equations refer to TRI Form R section numbers described in Exhibit C-4.
[b] *Subtitle C and D Total* refers to the sum of all PC quantities calculated using the equations in Exhibits C-5 and C-6.

All remaining records: PC quantities calculated using the equations in Exhibits 5 and 6 (i.e., original PC quantities) were updated by undertaking the following steps:

1. Estimate percentage of Subtitle C and D total for each original PC quantity.
2. Assign portion of Section 8.8 quantity to each PC quantity category (e.g., Subtitle C on-site disposal, Subtitle D onsite disposal) based on percentages estimated under Step 1.
3. Update PC quantities by subtracting estimated Section 8.8 quantity (i.e., quantity estimated under Step 2) from original PC quantities.

Exhibit C-9. TRI Data Files and Data Elements Used in the Development of the Databases That Implement the PC Measurement Methodology [a, b]

US_1_XXXX
FORM TYPE
REPORTING YEAR
TRIFID
FACILITY NAME
FACILITY STATE
PRIMARY SIC CODE
RCRA NR A
FEDERAL FACILITY IND
GOCO FACILITY IND
DOCUMENT CONTROL NUMBER
CAS NUMBER
CHEMICAL NAME
UNIT OF MEASURE
TOTAL AIR EMISSIONS
TOTAL SURFACE WATER DISCHARGE
TOTAL UGRND INJ ONSITE TO CL I WELLS - POUNDS
TOTAL UGRND INJ ONSITE TO CL II-V WELLS - POUNDS
TOTAL RCRA SUBTITLE C LANDFILLS
TOTAL OTHER ON-SITE LAND RELEASES
TOTAL LAND TREATMENT
TOTAL SURFACE IMPOUNDMENTS
TOTAL RCRA C SURFACE IMPOUNDMENTS
TOTAL OTHER SURFACE IMPOUNDMENTS
TOTAL OTHER DISPOSAL
TRANSFERS TO POTWS (METALS AND METAL COMPOUNDS)

Exhibit C-9. TRI Data Files and Data Elements Used in the Development of the Databases That Implement the PC Measurement Methodology [a, b]

US_2a_XXXX
DOCUMENT CONTROL NUMBER
UNIT OF MEASURE
ENERGY RECOVERY ONSITE CURRENT YEAR
ENERGY RECOVERY OFFSITE CURRENT YEAR
QUANTITY TREATED ONSITE CURRENT YEAR
QUANTITY TREATED OFFSITE CURRENT YEAR
CATASTROPHIC RELEASES OR OTHER ONE-TIME EVENTS
US_3a_XXXX
DOCUMENT CONTROL NUMBER
UNIT OF MEASURE
OFF-SITE RCRA ID NR
TOTAL XFERS OFF-SITE AMOUNT - SOLIDIFICATION/STABILIZATION (METALS) M41
TOTAL XFERS OFF-SITE AMOUNT - WASTEWATER TRTMT (METALS) M62
TOTAL UNDERGROUND INJECTION AMOUNT M71
TOTAL LANDFILLS/DISPOSAL SURFACE IMPOUNDMENT AMOUNT M72
SURFACE IMPOUNDMENT TOTAL AMOUNT M63
OTHER LANDFILLS TOTAL AMOUNT M64
RCRA SUBTITLE C LANDFILLS TOTAL AMOUNT M65
TOTAL LAND TREATMENT TOTAL AMOUNT M73
TOTAL OTHER LAND DISPOSAL AMOUNT M79
TOTAL OTHER OFF-SITE MANAGEMENT AMOUNT M90
TOTAL TRANSFER TO WASTE BROKER-DISPOSAL AMOUNT M94
TOTAL UNKNOWN AMOUNT M99
TOTAL XFERS OFF-SITE AMOUNT - SOLIDIFICATION/STABILIZATION M40
TOTAL XFERS OFF-SITE AMOUNT - INCINERATION/THERMAL TREATMENT M50
TOTAL XFERS OFF-SITE AMOUNT - INCINERATION/INSIGNIFICANT FUEL VALUE M54
TOTAL XFERS OFF-SITE AMOUNT - WASTEWATER TREATMENT M61
TOTAL XFERS OFF-SITE AMOUNT - OTHER WASTE TREATMENT M69
TOTAL XFERS OFF-SITE AMOUNT - TRANSFER TO WASTE BROKER-WASTE TREATMENT M95
TOTAL XFERS OFF-SITE AMOUNT - ENERGY RECOVERY M56
TOTAL XFERS OFF-SITE AMOUNT - TRANSFER TO WASTE-BROKERENERGY RECOVERY M92
RCRA SUBTITLE C SURFACE IMPOUNDMENTS TOTAL AMOUNT M66
OTHER SURFACE IMPOUNDMENT TOTAL AMOUNT M67
UNDERGROUND INJ. CLASS I WELLS TOTAL AMOUNT M81
UNDERGROUND INJ. CLASS II-V WELLS TOTAL AMOUNT M82

[a] In each of the TRI data file names, "XXXX" stands for the reporting year (e.g., 2004).
[b] Data elements in italics are primary keys for the data file.

Exhibit C-10. Revisions to TRI Data Based on EPA's Quality Assurance Activities

Database Table	Facility Name	TRIFID	RCRA ID	Chemical Name	Data Element	Revised Data / Updated in New TRI Release (Y/N)	
Methodology_Part 1_2000							
File Type 2a	DOW CHEMICAL LOUISIANA DIV	70765-THDWC-HIGHW	LAD008178080	HEXACHLORO-1,3-BUTADIENE	ENERGY_RECOVERY_ONSITE_CURRENT_YEAR	878	N
File Type 2a	DOW CHEMICAL LOUISIANA DIV	70765-THDWC-HIGHW	LAD008178080	HEXACHLORO-1,3-BUTADIENE	ENERGY_RECOVERY_OFFSITE_CURRENT_YEAR	2,273,336	N
File Type 2a	DOW CHEMICAL LOUISIANA DIV	70765-THDWC-HIGHW	LAD008178080	HEXACHLORO-1,3-BUTADIENE	QUANTITY_TREATED_ONSITE_CURRENT_YEAR	2,274,214	N
File Type 2a	DOW CHEMICAL LOUISIANA DIV	70765-THDWC-HIGHW	LAD008178080	HEXACHLOROETHANE	ENERGY_RECOVERY_OFFSITE_CURRENT_YEAR	783,824	N
File Type 2a	DOW CHEMICAL LOUISIANA DIV	70765-THDWC-HIGHW	LAD008178080	HEXACHLOROETHANE	QUANTITY_TREATED_ONSITE_CURRENT_YEAR	817,179	N
File Type 2a	DOW CHEMICAL LOUISIANA DIV	70765-THDWC-HIGHW	LAD008178080	NAPHTHALENE	ENERGY_RECOVERY_ONSITE_CURRENT_YEAR	46,697	Y
File Type 2a	DOW CHEMICAL LOUISIANA DIV	70765-THDWC-HIGHW	LAD008178080	NAPHTHALENE	ENERGY_RECOVERY_OFFSITE_CURRENT_YEAR	16,934	N
File Type 2a	DOW CHEMICAL LOUISIANA DIV	70765-THDWC-HIGHW	LAD008178080	NAPHTHALENE	QUANTITY_TREATED_ONSITE_CURRENT_YEAR	63,631	N
File Type 1	RINECO	72015-RNC00-1007V	ARD981057870	ALL REPORTED CHEMICALS	PRIMARY SIC CODE	4953	N
Methodology_Part 2_2001							
File Type 1	U.S. MARINE CORPS BASE HAWAII KANEOHE BAY TRAINING FACILITY	96863-SMRNC-MAGAZ	HI6170022762	ALL REPORTED CHEMICALS	RCRA NR A	HI6170022762	Y
File Type 1	U.S. MARINE CORPS AIR GROUND COMBAT CENTER	92278-SMRNC-BLDG1	CA0170090013	ALL REPORTED CHEMICALS	RCRA NR A	CA0170090013	N
File Type 3a	STRUCTURAL METALS INC	78156-STRCT-POBOX	TXD008119414	LEAD	TOTAL_LANDFILLS/DISPOSAL_SURFACE_IMPOUNDMENT_M72	245,015	Y
File Type 3a	OLD BRIDGE CHEMICALS INC	08857-LDBRD-OLDWA	NJD052204864	LEAD	TOTAL_LANDFILLS/DISPOSAL_SURFACE_IMPOUNDMENT_M72	240,391	N
File Type 3a	OLD BRIDGE CHEMICALS INC	08857-LDBRD-OLDWA	NJD052204864	LEAD	TOTAL_LANDFILLS/DISPOSAL_SURFACE_IMPOUNDMENT_M72	121,069	N
File Type 1	NATIONAL PLASTICS COLOR INC	67147-NTNLP-2600W	KSD984990903	ALL REPORTED CHEMICALS	RCRA NR A	KSD984990903	Y
File Type 1	RINECO	72015-RNC00-1007V	ARD981057870	ALL REPORTED CHEMICALS	PRIMARY SIC CODE	4953	N

Exhibit C-10. Revisions to TRI Data Based on EPA's Quality Assurance Activities

Database Table	Facility Name	TRIFID	RCRA ID	Chemical Name	Data Element	Revised Data / Updated in New TRI Release (Y/N)	
Methodology_Part 3_2002							
File Type 1	U.S. MARINE CORPS BASE HAWAII KANEOHE BAY TRAINING FACILITY	96863-SMRNC-MAGAZ	HI6170022762	ALL REPORTED CHEMICALS	RCRA NR A	HI6170022762	Y
File Type 1	U.S. MARINE CORPS AIR GROUND COMBAT CENTER	92278-SMRNC-BLDG1	CA0170090013	ALL REPORTED CHEMICALS	RCRA NR A	CA0170090013	Y
File Type 2a	VULCAN MATERIALS CO CHEMICALS DIV	70734-VLCNM-ASHLA	LAD092681824	HEXACHLORO-1,3-BUTADIENE	QUANTITY_TREATED_ONSITE_CURRENT_YEAR	714,480	N
File Type 3a	P KAY METAL INC	90058-PKYMT-2448E	CAL000024110	LEAD	RCRA_SUBTITLE C_LANDFILLS_TOTAL_AMOUNT_M65	116,000	N
File Type 1	RINECO	72015-RNC00-1007V	ARD981057870	ALL REPORTED CHEMICALS	PRIMARY SIC CODE	4953	N
File Type 1	NATIONAL PLASTICS COLOR INC	67147-NTNLP-2600W	KSD984990903	ALL REPORTED CHEMICALS	RCRA NR A	KSD984990903	Y
File Type 2a	NATIONAL PLASTICS COLOR INC	67147-NTNLP-2600W	KSD984990903	LEAD	QUANTITY_RECYCLED_ONSITE_CURRENT_YEAR	0.12	Y
File Type 3a	NATIONAL PLASTICS COLOR INC	67147-NTNLP-2600W	KSD984990903	LEAD	RCRA_SUBTITLE C_LANDFILLS_TOTAL_AMOUNT_M65	1.26	Y
File Type 3a	NATIONAL PLASTICS COLOR INC	67147-NTNLP-2600W	KSD984990903	LEAD	TOTAL_TRANSFER_BROKER_DISPOSAL_M94	3.23	Y
Methodology_Part 4_2003							
File Type 1	RINECO	72015-RNC00-1007V	ARD981057870	ALL REPORTED CHEMICALS	PRIMARY SIC CODE	4953	N
File Type 1	NATIONAL PLASTICS COLOR INC	67147-NTNLP-2600W	KSD984990903	ALL REPORTED CHEMICALS	RCRA NR A	KSD984990903	Y
File Type 2a	NATIONAL PLASTICS COLOR INC	67147-NTNLP-2600W	KSD984990903	LEAD	QUANTITY_RECYCLED_ONSITE_CURRENT_YEAR	0.15	Y
File Type 3a	NATIONAL PLASTICS COLOR INC	67147-NTNLP-2600W	KSD984990903	LEAD	RCRA_SUBTITLE C_LANDFILLS_TOTAL_AMOUNT_M65	1.63	Y
Methodology Part 5_2004							
File Type 1	RINECO	72015-RNC00-1007V	ARD981057870	ALL REPORTED CHEMICALS	PRIMARY SIC CODE	4953	N
File Type 3a	V&M Star	44510-NRTHS-2669W	OHD016077802	LEAD	TOTAL_OTHER_LANDFILLS_M64	2,228	N
File Type 3a	V&M Star	44510-NRTHS-2669W	OHD016077802	CADMIUM	TOTAL_OTHER_LANDFILLS_M64	326	N
File Type 2a	DOMTAR A.W. CORP PORT EDWARDS MILL	54469-PRTDW-100WI	WID006137202	POLYCYCLIC AROMATIC COMPOUNDS	QUANTITY_TREATED_ONSITE_CURRENT_YEAR	0	N

Exhibit C-10. Revisions to TRI Data Based on EPA's Quality Assurance Activities

Database Table	Facility Name	TRIFID	RCRA ID	Chemical Name	Data Element	Revised Data / Updated in New TRI Release (Y/N)	
File Type 3a	TRW AUTOMOTIVE	43420-KLSYH-4600O	OHD051631182	LEAD	TOTAL_XFERS_OFFSITE_WASTEWATER TRMT_M62	2	N
File Type 3a	TRW AUTOMOTIVE	43420-KLSYH-4600O	OHD051631182	LEAD	RCRA_SUBTITLE C_LANDFILLS_TOTAL_AMOUNT_M65	9	N
File Type 2a	DOW CHEMICAL CO FREEPORT FACILITY	77541-THDWC-BUILD	TXD008092793	HEXACHLOROETHANE	QUANTITY_TREATED_ONSITE_CURRENT_YEAR	165857	N
File Type 2a	BLUE SEAL FEEDS INC	05476-BLSLF-ELEVA	N/A	BENZO(G,H,I)PERYLENE	ENERGY_RECOVERY_ONSITE_CURRENT_YEAR	0	N
File Type 2a	BLUE SEAL FEEDS INC	05476-BLSLF-ELEVA	N/A	POLYCYCLIC AROMATIC COMPOUNDS	ENERGY_RECOVERY_ONSITE_CURRENT_YEAR	0	N
File Type 2a	BLUE SEAL FEEDS INC	14009-BLSLF-50WIL	N/A	BENZO(G,H,I)PERYLENE	ENERGY_RECOVERY_ONSITE_CURRENT_YEAR	0	N
File Type 2a	BLUE SEAL FEEDS INC	14009-BLSLF-50WIL	N/A	POLYCYCLIC AROMATIC COMPOUNDS	ENERGY_RECOVERY_ONSITE_CURRENT_YEAR	0	N
File Type 2a	PREMCOR REFINING GROUP INC PORT ARTHUR REFINERY	77640-CLRKR-1801S	TXD008090409	NAPHTHALENE	QUANTITY_TREATED_ONSITE_CURRENT_YEAR	1670000	N
File Type 1	DUPONT CHAMBERS WORKS	08023-DPNTC-RT130	NJD002385730	2,4,5-TRICHLOROPHENOL	PRIMARY SIC CODE	2869	N
File Type 1	CHEMTRON CORP	44011-CHMTR-35850	OHD066060609	METHOXYCHLOR	PRIMARY SIC CODE	7389	N
File Type 1	SGL CARBON LLC	42050-SGLCR-2320M	KY0001462027	POLYCYCLIC AROMATIC COMPOUNDS	TOTAL_STACK_AIR_EMISSIONS	87	N
File Type 1	SGL CARBON LLC	42050-SGLCR-2320M	KY0001462027	POLYCYCLIC AROMATIC COMPOUNDS	TOTAL _AIR_EMISSIONS	87	N
File Type 2	SGL CARBON LLC	42050-SGLCR-2320M	KY0001462027	POLYCYCLIC AROMATIC COMPOUNDS	ENERGY_RECOVERY_ONSITE_CURRENT_YEAR	299136	N
File Type 2	SGL CARBON LLC	42050-SGLCR-2320M	KY0001462027	POLYCYCLIC AROMATIC COMPOUNDS	QUANTITY_RECYCLED_OFFSITE_CURRENT_YEAR	498	N
File Type 1	U.S. DOE HANFORD SITE	99352-SDPRT-POBOX	WA7890008967	LEAD	PRIMARY SIC CODE	9511	N

Appendix D
List of Exhibits

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

APPENDICES

Appendix E

CUSTOMER SURVEY

1. Please indicate your level of satisfaction with the following aspects of the National Priority Chemicals Trends Report:

1 = highly dissatisfied / 5 = highly satisfied

- Readability: 1 2 3 4 5
- Usefulness: 1 2 3 4 5
- Charts, Graphs: 1 2 3 4 5

2. Do you have any suggestions for improving the National Priority Chemicals Trends Report?

_____

_____

_____

_____

_____

3. Please share how you use the information from the National Priority Chemicals Trends Report.

_____

_____

_____

_____

_____

Your name and Region, State, Organization

Please return this survey by email to owen.tammie@epa.gov. How to email this survey: 1) Go to File and click on 'Send To', 2) Click on 'Mail recipient (As Attachment), 3) This will automatically paste the document into your email as an attachment.

By postal mail, please forward to:

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US EPA – Headquarters
OSWER/OSW/HWMMD/AIB
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Appendix F

Contact Information

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